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	PART	5. CONVERSION TRANSITIONS OF NUCLEI WITH PAIR FORMA (V. A. Krutov and V. G. Gorshkov)	TIONS
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S/058/62/000/007/023/068 A061/A101

AUTHORS: Krutov, V. A., Corshkov, V. C.

TITLE: Conversion transitions with pair production

PFRIODICAL: Referativnyy zhurnal, Fizika, no. 7, 1962, 27, abstract 7B219

(In collection: "Gamma-luchi". Moscow-Leningrad, AN SSSR, 1961,

508 - 522)

TEXT: The results of all calculations, precise and approximate, performed to this day for the pair conversion coefficient without taking account of nuclear finite dimensions and shielding, are precented. Diagrams of the energy and angular distributions of the pair conversion coefficient, calculated in zeroth, first, and second Born approximations over the Coulomb field of the nucleus, are considered. EO transitions and conversion transitions with monochromatic positron production are also analyzed.

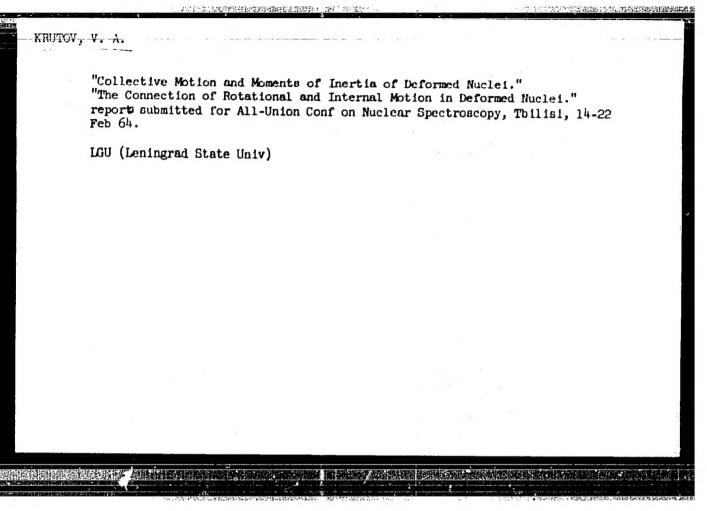
V. Gorshkov

[Abstracter's note: Complete translation]

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KRUYGV, V.I.

1、16、17的15年20年在中国的国际的国际工程的工程的工程的工程的。1967年2月19日的中心

"Analysis of the Operating Stability of the Engine in Tractor KIROVETS D 35" in the book Some Problems on the Thermodynamic Research in Thermotechnics, Mashgiz, 1954

Engine and governor stability factors. [Trudy] MVTU no.25:97-107
154. (MLRA 7:10)

(Governors (Machinery)) (Gas and oil engines)

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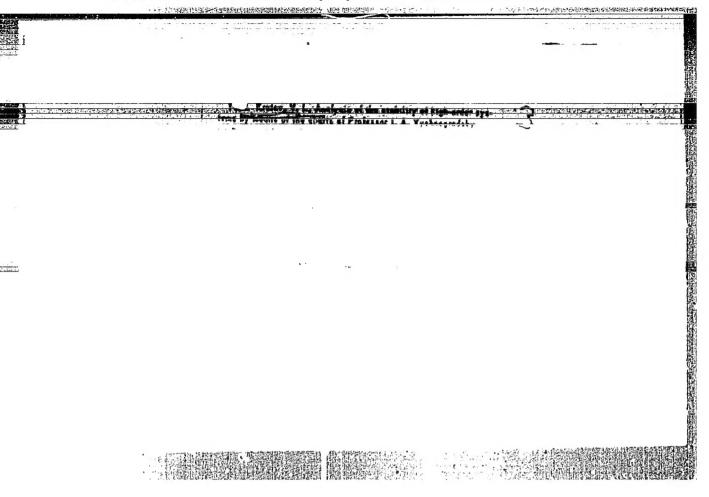
ERUTOV, V.I., dotsent, kandidat tekhnicheskikh nauk.

Performance stability analysis of the "Kirovete D-35" tractor engine.

[Trudy] MVTU no.27:159-188 '54.

(Tractors—Engines)

(Tractors—Engines)



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KHUTOV, V.I., kandidat tekhnicheskikh nauk.

The Department's contributions to the theory and design of fuel feeding devices. [Trudy] MVTU 0.35:104-110 155. (MIRA 9:7)
(Gas and oil engines -- Fuel systems)

KRUTOV, V.I., kandidat tekhnicheskikh nauk.

Characteristics of suction-choke fuel pumps. [Trudy] MVTU no.35: 111-122 155. (Fuel pumps) (HIRA 9:7)

KRUTOV, V.I., kandidat tekhnicheskikh næuk.

Professor I.A. Vyshaegradskii's diagrams as an aid in the investigation of the stability of high-degree systems. [Trudy] MVTU no.35:207-214 155. (MIRA 9:7) (Differential equations) (Gas and oil engines--Vibration)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810020-4"

PHASE I BOOK EXPLOITATION 1147

Krutov, Vitaliy Ivanovich

- Avtomaticheskoye regulirovaniye dvigateley vnutrennego sgoraniya (Automatic Regulation of Internal Combustion Engines) Moscow, Mashgiz, 1958. 344 p. 13,000 copies printed.
- Reviewers: Ayzerman, M.A., Doctor of Technical Sciences and Popyk, K.G., Candidate of Technical Sciences; Ed.: Meleyev, A.S., Engineer; Ed. of Publishing House: Geller, I.Yu.; Tech. Ed.: Model', B.I.; Managing Ed. for Literature on General Technical and Transport Machine Building (Mashgiz): Ponomareva, K.A., Engineer.
- PURPOSE: This book was approved by the Ministry of Higher Education of the USSR as a textbook on internal combustion engines for students of machine-building, polytechnical, and shipbuilding vuzes. The book may also be of use to specialists in the field of engine regulation.
- COVERAGE: The author is concerned mainly with problems of the automatic regulation of internal combustion engines used in transportation. He presents block

Card 1/6

Automatic Regulation of Internal (Cont.)

1147

diagrams of systems of fuel feed regulation and investigates the operating conditions and characteristics of engines. The book contains a classification of speed governors, a description of their elements, and an analysis of the statics of the sensitive element. It explains the degree of nonuniformity and nonsensitivity of governors on the basis of equilibrium curves obtained and describes the factors influencing the magnitude of degree. Linear differential equations for the elements of the regulating system are derived and an experimental method of determining the forces of friction is presented, together with methods for analyzing the stability of automatic regulating systems. Modern frequency methods of analysis are also discussed. A brief historical survey of the development of automatic regulation is presented. No personalities are mentioned. There are 86 references, of which 78 are Soviet, 2 English, 3 French, and 3 German.

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LEUTOV, V.I., kand, tekhn. nank.

Development of designs of automatic controllers used in internal combustion engines. [Trudy] MVRU no.83:197-210 58. (MIRA 11:6) (Governors (Machinery))

Characteristics of automatic direct-action regulators in case of parallel operation of engines. Isv.vys.ucheb.sav.; mashinostr. no.2:155-164 '59. (MIRA 13:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni M.Ye.Baumana. (Diesel engines) (Governors(Machinery))

TO A

PHASE I BOOK EXPLOITATION

80V/5886

Krutov, Vitaliy Ivanovich

- Analiz raboty sistem avtomaticheskogo regulirovaniya (Analysis of the Operation of Automatic Regulation Systems) Moscov, Mashgiz, 1961. 176 p. 8000 copies printed.
- Reviewer: G. G. Kalish, Doctor of Technical Sciences, Professor; Ed.: D. A. Butayev, Candidate of Technical Sciences; Ed. of Publishing House: M. S. Yeliseyev; Tech. Ed.: A. Ya. Tikhanov; Managing Ed. for Literature on Instrument Construction and Means of Automation: N. V. Pokrovskiy, Engineer.
- PURPOSE: The book is intended for machine-construction engineers investigating the problems of automatic regulation. It may also be used by machine-construction engineering students taking automation theory courses at schools of higher education.
- COVERAGE: The book gives the derivations of linear differential equations of motion for the most widely used third-order systems and for systems with processes that can be described by third-order equations after standard simplifications. The equations are reduced to dimensionless form (normalized), Card 1/4

Analysis of the Operation (Cont.)

SOV /5886

and similarity criteria formulas for transients are obtained. Methods for estimating the qualities of transients (e.g., system stability, process characteristics) are explained, and estimation methods for quantitative process component indices and for integration constants of third-order systems are given. The estimation of quantitative parameters of components is presented in convenient graphic form, making it possible to plot the transients in full and to give an evaluation of the automatic control system. He personalities are mentioned. There are 16 references, all Soviet.

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KRUTOV, Vitaliy Ivanovich; KALISH, G.G., doktor tekhn. nauk, prof., retsenzent; BUTAYEV, D.A., kand. tekhn. nauk, red.; YELISEYEV, M.S., red. izi-va; TIKHANOV, A.Ya., tekhn. red.

[Analysis of the operation of automatic control systems] Analiz raboty sistem avtomaticheskogo regulirovaniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 178 p.

(MIRA 14:10)

(Automatic control)

CRLIN, A.S., prof.; VYRUBOV, D.N.; ALEKSEYEV, V.P.; KALISH, G.G.;
KOSTYGOV, N.I.; KRUGLOV, M.G.; KRUTOV, V.I.; MIZERNYUK, G.N.;
ROGANOV, S.G.; STEPANOV, Yu.A., prof., retsenzent; YEGORKINA,
L.I., red. 1zd-va; SOKOLOVA, T.F., tekhn. red.

[Internal combustion engines]Dvigateli vnutrennego sgoraniia.
Pod red.A.S.Orlina. Moskva, Mashgiz. Vol.3. [Systems, regulation, automatic control]Sistemy. Regulirovanie. Avtomatizatsiia.
1962. 307 p. (MIRA 16:1)
(Gas and oil engines) (Automatic control)

TO CASE TO KINDS OF STATEMENT OF STATEMENT OF STATEMENT

KRUTOV, Vitaliy Ivanovich; POPYK, K.G., kand. tekhn. nauk, retsenzent; YELISEYEV, M.S., inzh., red.; MODEL', B.I., tekhn. red.

[Automatic control of internal combustion engines]Avtomaticheskoe regulirovanie dvigatelei vnutrennego sgoraniia. 2., dop. i ispr. izd. Moskva, Mashgiz, 1963. 623 p. (MIRA 16:7) (Internal combustion engines) (Automatic control)

KRUTOV, V.I., doktor tekhn. nauk, prof.

Analysis of transient responses of the system for automatic temperature control of cooling water in diesel engines. Izv. vys. ucheb. zav.; mashinestr. no.2:195-202 '63.

(MIRA 16:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

VASILENKO, Aleksey Nikolayevich, kand. tekhn. nauk; DRYZHAKOV,
Yevgeniy Vasil'yevich, dots.; ISAYEV, Sergey Ivanovich,
kand. tekhn. nauk; KORNEYCHUK, Nikolay Karpovich,
kand. tekhn. nauk, dots.; KOFANOV, Vyacheslav Ivanovich;
assistent; KRUTOV, Vitaliy Ivanovich, doktor tekhn. nauk,
prof.; MIRONOV, Boris Mikhaylovich, kand. tekhn. nauk;
NICMATULIN, Iskander Nigmatulevich, doktor tekhn. nauk, prof.;
NOSOV, Mikhail Vasil'yevich, prof.; SANOYLOV, Mikhail
Sergeyevich, assistent; SPONYSH, Igor'Pavlovich, kand. tekhn.
nauk, prof.; KHVOSTOV, Viktor Ivanovich, kand. tekhn. nauk;
SHISHOV, Yevgeniy Viktorovich, kand. tekhn. nauk; YUDAYEV,
Boris Nikolayevich, kand. tekhn. nauk, dots.; KUTYHIN, I.N.,
dots., kand. tekhn. nauk, retzenzant; SHVECCV, A.M., dots.,
retsenzent; TUPITSYNA, L.A., red.; FUFAYEVA, G.I., red.

[Problems in technical thermodynamics and heat transfer]
Sbornik zadach po tekhnicheskoi termodinamike i teploperedache. [By] A.N. Vasilenko i dr. Moskva, Vysshaia shkola,
1964. 369 p. (MIRA 17:4)

1. Prepodavatel'skiy kollektiv kafedry termodinamiki i teploperedachi Koskovskogo vysshego tekhnicheskogo uchilishcha (for all except Kutyrin, Shvedov, Tupitsyna, Fufayeva). 2. Moskovskiy aviatsionnyy institut (for Kutyrin, Shvedov).

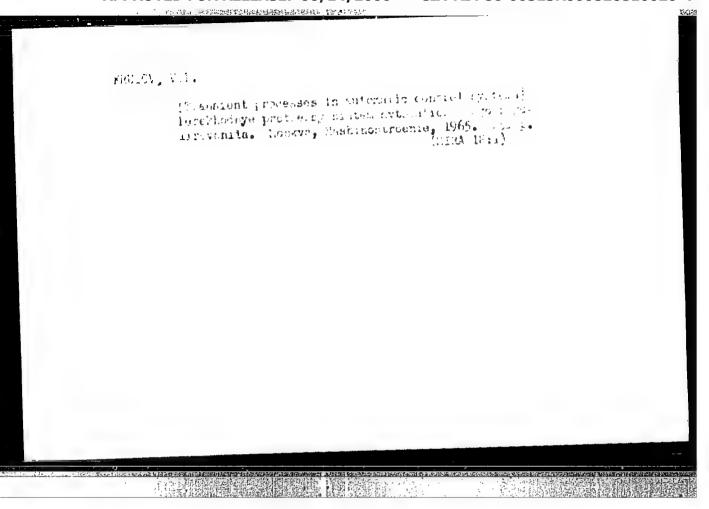
BRAYT, P.1.; KRUTOV, V.I.

Settling and deformation of buildings on filled in soil.

Sbor. trud. NIIosn. no.55;116-132 '64. (MIRA 18:3)

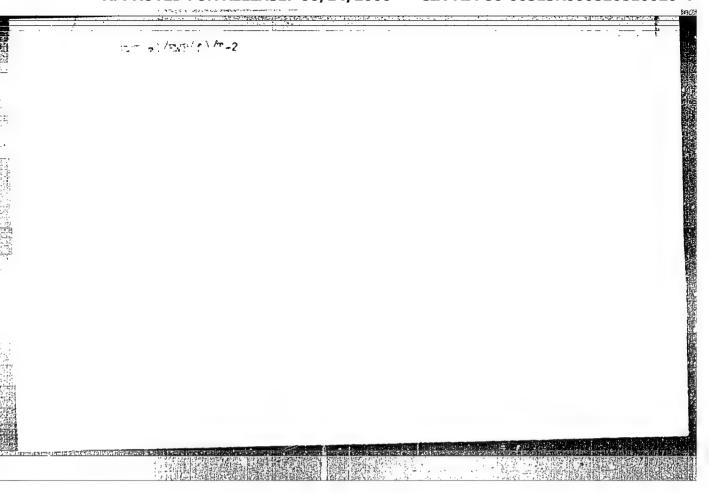
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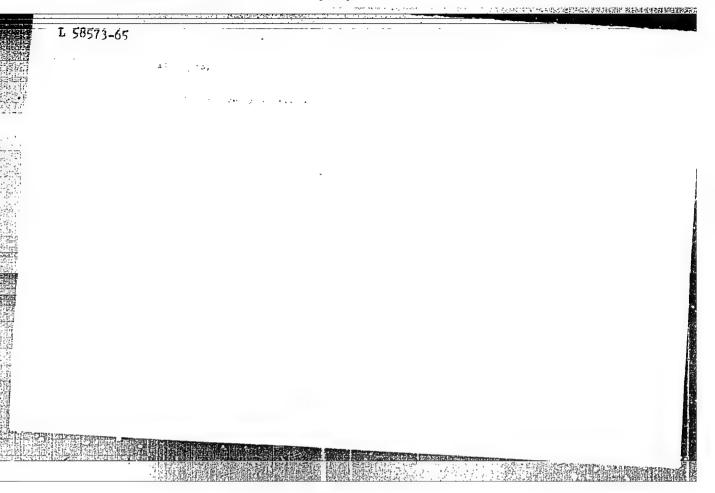
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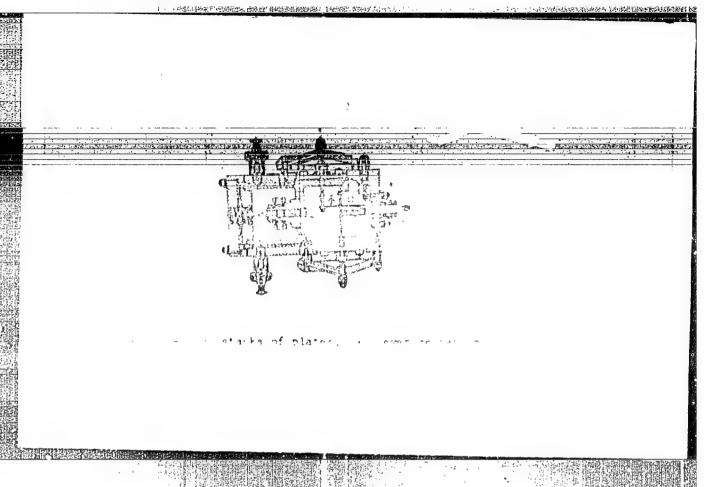


KRINETSKIY, I.I., doktor tekhn. nauk; KHUTOV, V.I., doktor tekhn. nauk, prof., retsenzent

[Control of internal combustion engines] Regulirovanie dvigatelei vnutrennego sgoraniia. Izd.2., perer. i dop. Moskva, Eashinostroenie, 1965. 263 p. (MIRA 18:4)







ABELEV, Yu.M.; DONLYSH, A.M.; IVANOV, Yu.K.; KRUTOV, V.I.; LISOVSKIY, V.P.; PANKIN, G.N.

Experience in correcting the tilt of a large-panel 1-480-P series apartment house after the sagging of the foundation. Osn., fund. i mekh. grun. 7 no.3:23-25 165.

(MIRA 18:6)

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"种种"的"的经验"的"自己"的"种种","不是一个"。

SOURCE CODE: UR/0145/65/000/012/0051/0056 ACC NR: AP6019895 (A) AUTHOR: Krutov, V. I. (Doctor of technical sciences, Professor); Shatrov, V. I. (Graduate student) B ORG: MVTU imeni N. E. Bauman 21 TITLE: Experimental data on the transient processes of a diesel with turbine supercharging SOURCE: IVUZ. Mashinostroyeniye, no. 12, 1965, 51-56 TOPIC TAGS: diesel engine, supercharged engine, gas turbine, engine crankshaft, strain gage, torque, hydraulic device / 1D6N diesel engine ABSTRACT: The authors give the results of an experimental study of diesel engine operating conditions where the diesel engine is equipped with a gas turbine supercharger. The problems caused by introduction of the supercharger are discussed. One of these is the difference between the crankshaft speed of the engine and the speed of the turbine. Such a condition causes insufficient access of air for combustion. This is not true for mechanically connected engine and supercharger units. Transient processes of the engine and supercharger are experimentally studied in the 1D6N diesel engine with a TN-6) constant-pressure turbine compressor 10 The LE-4-53 loading unit used in the experiment was built by MAI. Standard measuring equipment is used which UDC: 3221 Card 1/2

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ACC NR: AP6019895

fulfills the requirements of GOST 10448-63. Induction pickups placed inside the flywheel and compressor housings are used to register the rpm of the engine and the turbocompressor. The pickup signals are fed to an amplifier. Fuel measurement is recorded in a like manner. Strain gages are used for recording engine torque. These are placed on the cylindrical part of the input shaft of the hydraulic brake and connected according to a bridge circuit. A low-pressure pickup at the compressor output is used for measuring supercharging pressure. Engine control is set at maximum by setting the spring at its limit. Graphs are given for torque, rpm of the crankshaft and compressor turbine rotor, including supercharging pressure as a function of transient process time. The effect of individual factors on diesel operation are analyzed. The results show that increasing the load on gas turbine supercharging increases the duration of transient processes in the engine. Orig. art. has:

3 figures, 1 table, 1 formula.

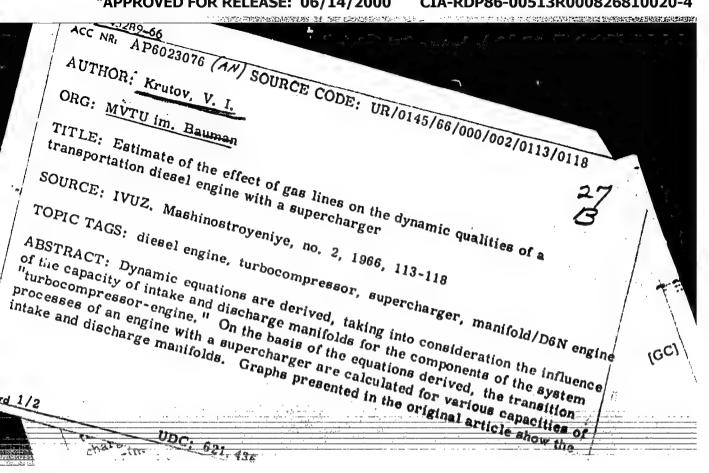
SUB CODE: 13, 21/ SUBM DATE: 12Jul65/ ORIG REF: 003

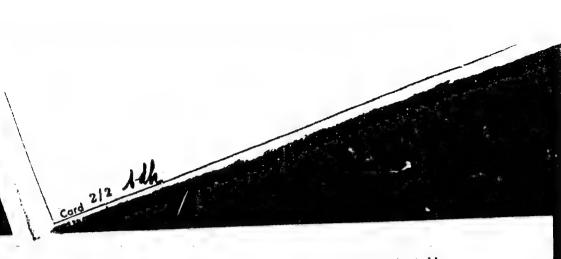
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CIA-RDP86-00513R000826810020-4

EWT(d)/EWT(m)/EWP(f) L-00897-67 SOURCE CODE: UR/0122/65/000/011/0023/0026 ACC NR AP6009258 Krutov, V. I. (Doctor of technical sciences, Professor); Shatroy, V. I. (Engineer) -ORG: None TITLE: Dynamics of a diesel with turbosupercharger ${\cal V}$ SOURCE: Vestnik mashinostroyeniya, no. 11, 1965, 23-26 TOPIC TAGS: turbosupercharged engine, diesel engine, compressor rotor ABSTRACT: The authors analyze the effect of a self-contained turbosupercharger on the dynamic characteristics of diesel engines. A formula is derived for transient processes in a diesel with self-contained turbocompressor and curves are given comparing these processes in the 1106N diesel engine with and without supercharging. The results show that the inertia of the compressor rotor extends the duration of the transition process. Comparison of transition processes assuming various moments of inertia in the compressor rotor shows an increase in the time of the transition process by a factor of 2.5 when the moment of inertia is increased by a factor of 3. This indicates that if other factors remain constant, the transition process is considerably shortened by reducing the moment of inertia in the turbocompressor. Orig. art. has: 2 figures, 35 formulas. ORIG REF: 003 none/ SUB CODE: 16 21/ com





KRUTOV, V.I., doktor tekhn. nauk, prof.; ROMANENKO, N.T., kand. tekhn. nauk, dotsent; IGNATENKO, V.V., kand. tekhn. nauk, dotsent

Effect of masses connected with the servomotor piston on transient processes. Izv. vys. ucheb. sav.; mashinostr. (MIRA 18:11) no.5:87-93 '65.

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810020-4

KRUTOV, V.I., doktor tekhn.nauk, prof.; SHATROV, V.I., inzh.

Dynamics of a diesel engine with a turbo-driven supercharger.

Vest.mashinostr. 45 no.11:23-26 N '65.

(MIRA 18:12)

KRUTOV, V.I., inzhener; SHVETS, V.B., inzhener.

Preparing foundations for building on filled-in ground. Biul.stroi. tekh. 13 no.5:8-11 My *56. (MLRA 9:8)

1. Mauchno-issledovatel'skiy institut osnovaniy i fundamentov Ministerstva stroitel'stva SSSR. (Soil mechanics) (Foundations)

KRUTOV, V.I., insh.

Deformations in buildings and installations erected on filled ground. Biul. stroi. tekh. 14 no.9:12-16 S '57. (MIRA 10:12)

1. Hauchno-issledovatel skiy institut osnovaniy i podsemnykh soorusheniy Akademii stroitel stva i arkhitektury SSSR. (Youndations)

ABELEV, Yu.M., professor; KRUTOV, V.I., inzhener. PETROV, A.I., inzhener.

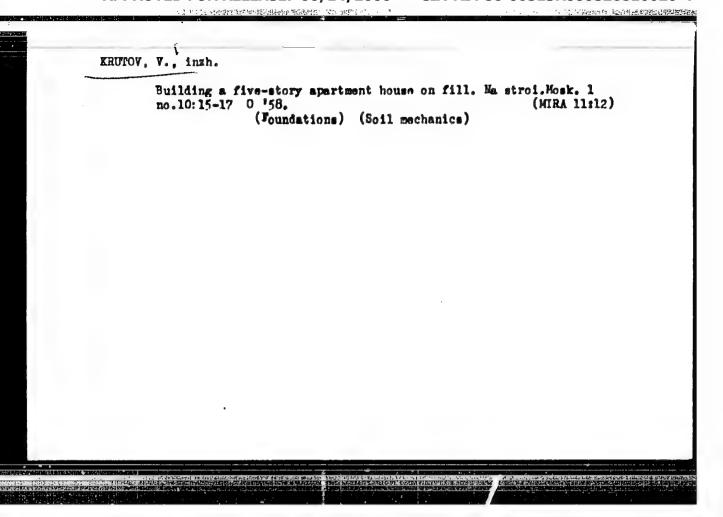
Building on fill, Stroi. pros. 77 no.5:16-20 My '57. (MIRA 10:6)

1. Ysesoyusnyy nauchno-issledovatel'skiy institut osnovaniy i nedsemnykh soorusheniy Akademii stroitel'stva i arkhitektury SSSR (for Krutov). 2. Proyektno-konstruktorskoye byuro zavoda imeni Il'icha (for Petrov).

(Foundations) (Soil mechanics)

VRUPOV, V.I., Cond tech Sci -- (diss) "Problems of the use of technique of the use o

- 112 -



Scheme for classifying fills considering them as beses of structures.

Prom. stroi. 36 ne.11:28-32 N '58. (MIRA 12:1)

1. Institut osnovaniy i podsemnykh secruzheniy Akademii stroitel'stva i arkhitektury SSSR. (Scils--Classification) (Foundations)

ABELEY, Yu.M., prof.; KRUTOY, Y.I., kand.tekhn.nsuk, mladshiy nsuchnyy sotrudnik; NÓVITCHENKO, K.M., inzh., red.

[Practices in constructing buildings on fills] Opyt stroitel'stva zdanii na nasypnykh gruntakh. Moskva, 1959. 36 p. (MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organisatsii, mekhanisatsii i tekhnicheskoy pomoshchi stroitel'stvu.
Byuro tekhnicheskoy informatsii. 2. Rukovoditel' laboratorii
stroitel'stva na lessovykh prosadochnykh gruntakh Nauchno-issledovatel'skogo instituta osnovaniy Akademii stroitel'stva i arkhitektury SSSR (for Abelev). 3. Fauchno-issledovatel'skiy institut
osnovaniy Akademii stroitel'stva i arkhitektury SSSR (for Krutov).
(Foundations)

Designing and constructing large-panel buildings on sagging losss soils. Osn., fund. i mekh.grun. no.6:3-5 '59.

(Loss) (Foundations)

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KRUTOV, V.I.

Straightening leaning flues after their settlement. [Trudy] MIIOSP no.37:68-74 159. (MIRA 12:11) (Soil mechanics) (Foundations) (Flues)

SOKOLOV, N.M.; KRUTOV, V.I.

Information. Osn.fund.i mekh.grun. 2 no.2:31 '60. (MIRA 13:8)
(Foundations)

(HIRA 13:7)

RRUTOV, V.I.

Reflect of organic materials in fill foundations on the settlement of structures. Osn., fund.i mekh.grun. 2 no.3:25 60.

(Foundations)

(Soil mechanics)

KRUTOV, V.I.; TEPLITSKIY, M.L.

Erection of an apartment house on filled ground. Osn., fund.

i mekh. grun. 3 no.5:5-7 '61. (MIRA 14:11)

(Kursk--Foundations)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810020-4"

ABELEV, Yu.M.; RRAYT, P.I.; KRUTOV, V.I.; SCHOCHAN, Ye.A.

Deformations of a large-panel apartment house on sagging soil with artificial wetting of the footing. Osn., fund.i mekh.grun.

3 no.6:12-15 '61. (MIRA 15:4)

(Apartment houses) (Foundations)

上述病。也《如此分類月經濟》如此對於於此地域。由為其下記事。

ABELEV, Yuriy Mordukhovich, prof.; KRUTOV, Vladimir Ivanovich, kand.tekhn. nauk; SHERSHUKOVA, M.A., red.izd-va; KASIMOV, D.Ya., tekhn.red.

[Erection of buildings and structures on filled ground] Vozvedenie zdanii i soorushenii na nasypnykh gruntakh. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1962. 147 p.
(MIRA 15:5)

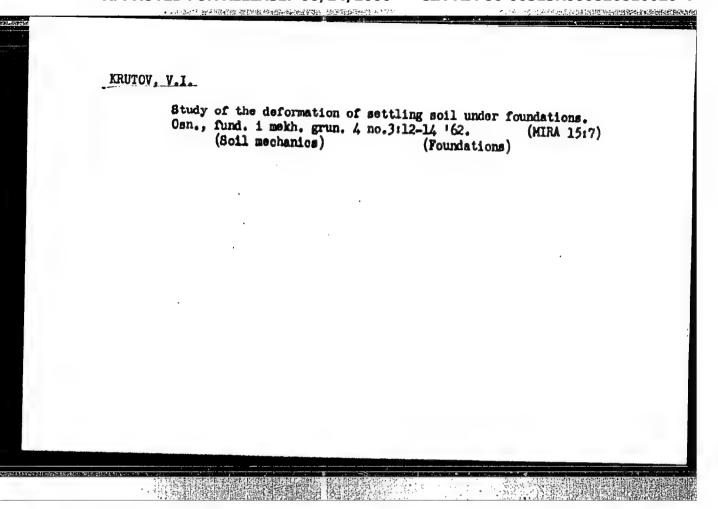
(Foundations)

ABELEV, Yu.M.; BRAYT, P.I.; KRUTOV, V.I.; KULACHENOK, B.G.; SOROCHAN, Ye.A.; EYDUK, R.P.

Testing a series 1-480-P large-panel apartment house erected on settling soil. Osn., fund.i mekh.grun. 4 no.2:3-5 '62.

(Zaporosh'ye-Apartment houses-Testing)

(MIRA 15:8)



- 10以一十二十0次的等待公司公司共和 NGH 美国政治大学的

KRIGER, N.I.; KRUTOV, V.I.; SOROCHAN, Ye.A.; TARASOVA, I.V.

Conference on problems of building on settling soil.
Osn., fund. i mekh, grun. 4 no.3:29-31 '62. (MIRA 15:7)
(Soil mechanics—Congresses)

KRUTOV, V.I.

Deformations of an industrial building built on unevenly compressed soil. Prom. stroi. 40 no.5:18-20 '62. (MIRA 15:5) (Industrial plants) (Foundations)

KRUTOV, V.I.

Calculating the settlement of foundations according to data obtained by testing scil with stamps and wetting. Osn., fund.
i mekh. grun. 4 no.6:15-17 '62. (MIRA 16:1)
(Soil mechanics) (Foundations)

三、公司打到"生活"(公司运动的中心会、基础)

ASYANIN, Petr Dmitriyevich, inzh.; KRUTOV, Vladimir Ivanovich, st. nauchn. sotr.; KASITSYNA, K.N., inzh., red.

[Compacting sagged grounds by rolling in making soil cushions] Uplotnenie prosadochnykh gruntov sposobom ukatki pri ustroistve gruntovykh podushek; opyt tresta "Nikopol'stroi." Moskva, Gosstroiizdat, 1963. 24 p.

(MIRA 17:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Glavnyy inzhener tresta "Nikopol'stroy" (for Asyanin). 3. Nauchno-issledovatel'skiy institut osno-vaniy i podzemnykh sooruzheniy Akadanii stroitel'stva i arkhitektury SSSR (for Krutov).

KRUTOV, V.I.; TARASOVA, I.V.

Method of measuring "initial pressure" in settling soils. Osn. fund.i mekh.grun. 6 no.1:7-9 '64. (MIRA 17:2)

ABELEV, Yu.M., doktor tekhm. nauk, prof.; ABELEV, M.Yu., inzh.; BAKHOLDIN, B.V., kand. tekhn. nauk; BEREZANTSEV, V.G., doktor tekhm. nauk, prof.; VYALOV, S.S., doktor tekhm. nauk; GODES, E.G., inzh.; GORBUNOV-POSADOV, h..I., doktor takhn. nauk, prof.; DAIMATOV, B.I., doktor tekhn. nauk, prof.; DOKUCHAYEV, V.V., kand. tekhn. nauk; KRUTOV, V.I., kand. tekhn. nauk; KSENOFONTOV, A.I., kand. tekhn. nauk; MARIUPOL'SKIY, G.M., kand. tekhn. nauk; MORAHESKUL, N.N., inzh.; PEdLEY, Ye.M., inzh.; SAVINOV, O.A., doktor tekhn. nauk; SIDOHOV, N.N., kand. tokhn. nauk; SMORODINSKIY, N. .., kand. tekhn. nauk: SOKOLOV, N.M., doktor tekhn.nauk; FindKIN, A.Ya., inzh.; SHASHKOV, S.A., kand. tekhn.nauk; S' EYKOV, M.L., inzh.; YAROSHENKO, V.A., kand.tekhn.nauk, [deceased]; KHALIZEV, Ye.P., kand. tekhn. nauk, nauchn.red.

> [Manual for the designing of industrial plants, apartment houses, and public buildings and structures; foundations] Spravochnik proektirovshchika promyshlennykh, zhilykh i obshchestvennykh zdanii i sooruzhenii; osnovaniia i fundamenty. Leningrad, Stroitzdat, 1964. 268 p. (MIRA 18:1)

SOKOLOV, Nikolay Mikhaylovich, doktor tellar, nauk; KRULOV, Vladimir Ivanovich, kand. tekhn. nauk; SOMOCHAN, Yevgeniy Andreyevich, kand. tekhn. nauk;

[Construction of large-panel buildings on sagging ground]
Stroitel'stvo krupnopanel'nykh zdanii na prosadochnykh
gruntakh. Moskva, Stroiizdat, 1965. 191 p.
(MIRA 18:2)

A.C.C. 可用化LC及对整件概要的处理化划。如何是不是

ABELEV, Yuriy Fordukhovich, doktor tekhn. nauk; KRUTOV, Vladimir Ivanovich, kand. tekhn. nauk; EYDUK, kudol'f Fetrovich, at. nauchn. sotr., inzh.; FOLU:REVA,V.I.,inzh.,nauchn.red.

[Preparation of foundation beds and the laying of foundations of large-panel apartment houses on sagging soil; practices of the Research Institute for Foundation Beds and Underground Structures of the State Corrittee on Construction of the Council of Ministers of the U.S.S.R. and of the Zaporozh ye Housing Construction Trust, and the Nikopol Construction Foundations Trust] Podgotovka osnovanii i ustreistvo fundamentov krupnopanel nykh zhilykh domov na prosadochnykh gruntakh; iz opyta NII osnovanii i podzemnykh sooruzhenii Gosstroia SSSR, trestov "Zaporozhzhilstroi" i "Nikopol stroi." Koskva, Stroizdat. 1965. 19 p. (KIM 18:9)

1. Rukovoditel' laboratorii stroitel'atva na prosadochnykh gruntakh Nauchno-issledovatel'skogo instituta esnovaniy i podzemnykh sooruzheni; (for Abelev). 2. Laboratoriya stroitel'stva na posadochnykh gruntakh Nauchno-issledovatel'skogo instituta osnovaniy i podzemnykh sooruzheniy, Moskva (for Moskva, Eyduk).

"一个文化的社会创建的经济技术的影响,如果很多是关于。"在"管理和设计"。 A CONTROL OF THE REAL PROPERTY OF THE PARTY 1 129 1 64 . 1306 DILLY 092: . 40. AP3000174 COURSE Thitnik, I. A.; Krutov, V. V.; Malyavkin, L. P.; Mandel shtan, . . The solar image in the far ultraviolet spectral range osmicheskiye issledovaniva, v. 2 ... 6, 13/4, 920-927 section geophysical rocket, solar spectrum, ultraviolet spectral rango, rocket container, telemetric record and a spectrum, clarculi field orgen Solar images were obtained by a specially arranged apparatus sical tocket equipped for phot aranton, the sun in the A GARAGE TANGET TO SEE AS DECEMBER OF THE SECOND tainer ubi Twee maintained in a stable position during the whole haight of 120 km during the ascent and closed of 400 km during the descent. The rocket flight reached a maximum height of 500 km. The position of the container relative to the direction of the sun was Cord 1/2

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ACCESSION NR: AT5023635

UR/0000/65/000/000/0533/0533

AUTHORS: Zhitnik, I. A.; Krutov, V. V.; Halyavkin, L. P.; Mandel'shtam, S. L.

TITLE: Image of the sun in the far short wave region of the spectrum (Thesis)

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Hoscov, 1965, Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Hoscov, Izd-vo Nauka, 1965, 533

TOPIC TAGS: solar X radiation, solar facula

ABSTRACT: The image of the sun in the short wave region of the spectrum 170-400 % was obtained by using apparatus placed on a geophysical rocket launched June 6, 1963, which reached an altitude of 500 km. It was observed that regions of enhanced intensity of the short wave radiation are located above facula fields and remain on the sun for at least a solar day.

ASSOCIATION: none

SUBMITTED: 02Sep65

ENCL: 00

SUB CODE: . AA

NO REF SOV: 000

OTHER: 000

"APPROVED FOR RELEASE: 06/14/2000

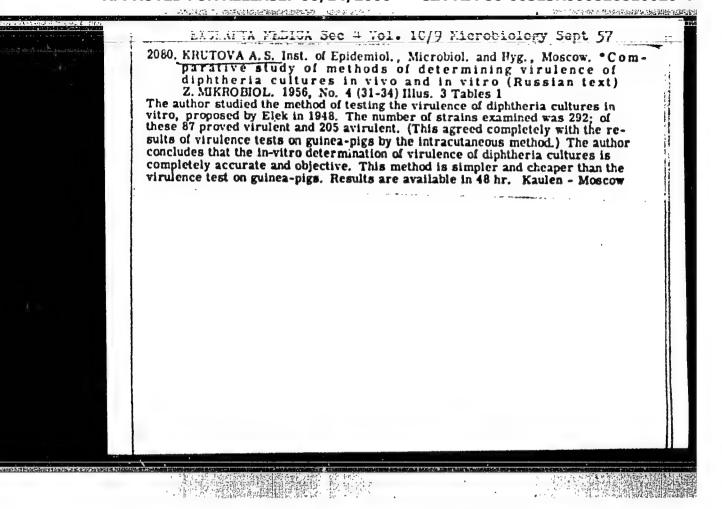
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more reviews to the

Krutova. A. H. "The problem of classification of clinical forms of tularenia," Trudy Ehovrin. obl. klinich. bol'nitsy, Khovrino (Hoscow Oblast), 1948, p. 153-59

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1919)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810020-4



KRUTGUA, EL

HRDLICKA, J.; KRUTOVA; MALEK, J.

[Frequency and seasonal rhythm of premature births in relation to the weight and size of fetus] Frekvence predcasnych porodu podle vah a mer plodu a jejich sesonni rytmus. Cesk.gyn. 15 no.1-2:26-35 150. CLML 19:1)

1. Of the First Obstetrical and Gynecological Clinic of Charles University, Prague (Head -- Prof. K.Klaus, M.D.)

IUNDOVA, Anna, MUDr; SOYKOVA-PACHNEROVA, Eva, MUDr; KRUTOVA, Eva, MUDr; MACHOLDA, Fr., MUDr

Secondary findings in etiology of genital tuberculosis. Prakt.
lek., Praha, 35 no.3:54-56 5 Feb 55.

1. I gin. klin. EU, prednosta prof. MUDr K.Klaus (for Lundova, Soykova-Pachnerova, Krutova) 2. Plic. kl. EU v Praze; predn.
prof. MUDr J.Jedlicka (for Macholda)

(TUHERCULOSIS, FEMALE GENITAL, etiology and pathogenesis current findings)

FFITTE

TOPCHIYEV, A.V., akademik, glavnyy redaktor; PETROV, B.N., otvetstvennyy redaktor; AYZERMAN, M.A., redaktor; BERNSHTEYN, S.I., redaktor; VASIL'YEV, R.V., redaktor; IVANOV. V.I., redaktor; KARAGODIN, V.M., redaktor; KOGAN, B.Ya., redaktor; LETOV, A.M., redaktor; PORTNOV-SOKOLOV, Yu.P., redaktor; SOLODOVNIKOV, V.V., redaktor; ULANOV, G.M., redaktor; TSUPKIN, Ya.Z., redaktor; KRUTOVA, I.N., redaktor; ASTAF'YEVA, G.A., tekhnicheskiy redaktor

[A session of the Academy of Sciences of the U.S.S.R. on scientific problems in automatization of production, October 15-20, 1956; principal problems of automatic centrol] Sessiia Akademii nauk SSSR po nauchnym problemam automatizatsii proisvodstva, 15-20 oktiabria 1956 g.; osnovnye problemy automaticheskogo regulirovaniia i upravleniia. Moskva, 1957. 334 p. (MIRA 10:5)

1. Adakemiya nauk SSSR. 2. Chlen-korrespondent AN SSSR. (for Petrov) (Automatic control)

一一一一位为10多点(包含用的物料的特别和自由的整理。

KRUTOVA, I.H.: SUBBOTINA, G.V.: UTKIH, I.V.; KOBRINSKIY, A.Yo.; GAVRILOV, M.A;

Conference of the Academy. of Sciences of the U.S.S.R. on Automation. Avtom. 1 telem. 18 no.2:182-192 F 157. (MLRA 10:3) (Automatic control)

·KRUTOVA, I.N.

PHASE 1 BOOK EXPLOITATION SOV/3754

- Gorskaya, Nina Sergeyevna, Inessa Nikolayevna Krutova, and Vladislav Yul'yevich Rutkovskiy
- Dinamika nelineynykh servomekhanizmov (Dynamics of Nonlinear Servomechanisms)
 Moscow, AN SSSR, 1959. 318 p. Errata slip inserted. 3,300 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
- Ed.: B.N. Petrov, Corresponding Member, Academy of Sciences USSR Ed. of Publishing House? Ye. N. Grigor'yev; Tech. Ed.: P.S. Kashina.
- PURPOSE: This monograph is intended for scientific workers and engineers studying or designing automatic control systems and their components. Ch. II is of special interest to persons studying the phase plane method and the method of point transformations.
- COVERAGE: The monograph examines certain specific types of electropneumatic, hydraulic, and electric servomechanisms in order to investigate the dynamics of nonlinear servomechanisms on the basis of the method of phase space and of the

Card 1/7

Dynamics of Nonlinear Servomechanisms

807/3754

theory of point transformations. Section 1 of Ch. I, Ch. IV, and sections 4-6 of Ch. VII were written by 1.8. Gorskaya; Ch. III and VI, and sections 2-5 of Ch. I by I.N. Krutova; and Ch. II and V, and sections 2-3 of Ch. VII by V.Yu. Rutovskiy. The authors thank N. A. Furayev and V.V. Petrov. There are 130 references: 100 Soviet, 24 English, 3 German, and 3 French.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810020-4

Dynamic properties of vibration servomechanisms used in electric automatic pilots. Avtom.i telem. 20 no.2:115-126 y '59.

(MIRA 12:3)

(Servomechanisms) (Automatic pilot (Airplanes))

(MIRA 12:5)

ERUTOVA, I.N. (Moskva)

Dynamics of the vibration circuit of an electric servomechanism under free oscillation conditions [with summary in English]. Avtom.

i telem. 20 no.4:422-436 Ap '59.
(Automatic control)

KULEAKIN, V.S., akademik, otv. red.; PETHOV, B.N., akademik, otv. red.; BODNER, V.A., doktor tekhn. nauk, red.; VOROHOV, A.A., doktor tekhn. nauk, red.; IVAKHNENKO, A.G., red.; ISHLINSKIY, A.Yu., akademik, red.; KOSTYUK, O.M., kand. tekhn. nauk, red.; KRASSOV, I.M., kand. tekhn. nauk, red.; KUNTSEVICH, V.M., kand. tekhn. nauk, red.; KUKHTENKO,A.I., red.; RYABOV, B.A., doktor tekhn. nauk, red.; SIMONOV, N.I., doktor fiz.-mat. nauk, red.; ULANOV, G.M., doktor tekhn. nauk, red.; FEDOROV, S.M., kand. tekhn. nauk, red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, red.; CHINAYEV, P.I., kand. tekhn. nauk, red.; KRUTOVA, I.N., kand. tekhn. nauk, red.; RUTKOVSKIY, V.Yu., kand. tekhn. nauk, red.

[Invariancy theory in automatic control systems; transactions] Teoriia invariantnosti v sistemakh avtomaticheskogo upravleniia; trudy. Moskva, Nauka, 1964. 503 p.
(MIRA 18:2)

1. Vsesoyuznoye soveshchaniye po teorii invariantnosti i yeye primeneniyu v avtomaticheskikh ustroystvakh. 2d, Kiev, 1962. 2. Chlen-korrespondent AN Ukr.SSR (for Ivakhnenko, Kukhtenko).

5/0280/64/000/001/0124/0131

AUTHOR: Krutova, I. N. (Moscow); Rutkovskiy, V. Yu. (Moscow)

TITLE: | Model-adaptive system - Part I

SOURCE: AN SSSR. Evestiya. Tekhnicheskaya kibernetika, no. 1, 1964, 124-131

TOPIC TAGS: automatic control, adaptive automatic control, model adaptive automatic control, model reference adaptive control, model adaptive control theory

ABSTRACT: The well-known principle of operation and some characteristics of a model-reference adaptive control system are theoretically investigated. [The system given in Fig 5, p. 125, of the Russian original is "not considered adaptive" according to John E. Gibson, "Nonlinear Automatic Control," 1962, p. 498. Abstracter]. An ideal model is considered. The use of an aperiodic unit as a reference model is indicated for complicated and higher-order control systems.

Card 1/2

Also, the possibilities of a resettable model are mentioned. "The project was fulfilled in IAT, under B. N. Petrov, in 1960-63." Orig. art. has: 7 figures and 25 formulas.

ASSOCIATION: Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics, AN SSSR)

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SUBMITTED: 08Aug63 DATE ACQ: 12Mar64 ENCL: 00

SUB CODE: CG, IE NO REF SOV: 005 OTHER: 003

Card 2/2

8/0280/64/000/002/0143/0152

AUTHOR: Krutova, I. N. (Moscow); Rutkovskiy, V. Yu. (Moscow)

TITLE: Model-adaptive control system. Part. 2.

SOURÇE: AN SSSR. Investiya. Tekhnicheskaya kibernetika, no. 2, 1964, 143-152

TOPIC TAGS: automatic control, adaptive automatic control, model adaptive automatic control

ABSTRACT: Some general characteristics of a model-adaptive system, such as algorithms and laws of coefficient adjustment, are theoretically considered. For a readjustment of coefficients k_g and k, (see authors' article in Isv. AN SSSR. OTN. Tekhnicheskaya kibernetika, 1963, no. 1), these algorithms are plotted and discussed:

 $\begin{array}{l} |a| = |x_n| - |x|, \\ |a| = |x_n| - |x| & \text{sign } x, \\ |a| = |x_n| - |x| & \text{sign } x_n, \\ |a| = |x_n| - |x| & \text{sign } x, \end{array}$

Card 1/2

Similarly, for coefficients kg, these algorithms are plotted:

 $e_{t} = \lfloor d_{tt} \rfloor - \lfloor d \rfloor,$

 $a_2 = (a_n - a) \operatorname{sign} a$,

 $e_s = (e_u - s) \operatorname{sign} e_u$

A formula for a general law of forming the self-adjusting coefficients is given. Model-adaptive systems are recommended for these cases: (1) when the plant parameters vary widely and rapidly, in an unknown way; (2) when the nonlinear plant characteristics may result in a loss of stability without self-adapting loops; (3) when the constant-parameter plant would require complicated correcting devices. Orig. art. has: 9 figures and 27 formulas.

ASSOCIATION: none

SUBMITTED: 08Aug63

DATE ACQ: 30Apr64

ENGL: 00

SUB CODE:

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NO REF SOVI 003

OTHER: 001

Card 2/2

8/0103/64/025/002/0188/0194

AUTHOR: Krutova, I. N. (Moscow); Rutkovskiy, V. Yu. (Moscow)

TITLE: Dynamics of a first-order model-adaptive system

SOURCE: Avtomatika i telemekhanika, v. 25, no. 2, 1964, 188-194

TOPIC TAGS: automatic control, adaptive automatic control, model adaptive automatic control, model adaptive control dynamics, model adaptive control stability

ABSTRACT: The effect of error algorithms, the number of resettable coefficients, and their resetting law upon the dynamic processes inside a model-adaptive automatic-control system is theoretically considered. The principal loop of the system is described by a first-order linear equation, and the coefficient-resetting law contains only a term expressing the error between the input signal g(t) and the controlled variable x(t). The model is represented by

Card 1/2

an ideal unit $x_m = g(t)$. It is proved that, under the above conditions, the system is stable with negative self-regulation coefficients b, yet under steady-state conditions, the variation of b introduces an error. Orig. art. has: 9 figures and 24 formulas.

ASSOCIATION: none

SUBMITTED: 12Sep63

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: CG, IE

NO REF SOV: 002

OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/14/2000

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5/0103/64/025/004/0473/0483

AUTHOR: Krutova, I. N. (Moscow); Rutkovskiy, V. Yu. (Moscow)

TITLE: Effect of the integrals in algorithms of self-adjusting coefficients upon the dynamics of a model-adaptive system

SOURCE: Avtomatika i telemekhanika, v. 25, no. 4, 1964, 473-483

TOPIC TAGS: automatic control, adaptive automatic control, model adaptive automatic control, automatic control theory

ABSTRACT: In the general case, the model-adaptive automatic-control system can be described by:

plant: $\delta = K_{\ell}g - K_{i\phi}$

 $K_{g} = 1 + K_{gu} \int (g - a\varphi) \operatorname{sign} g dt + K_{ge} (g - a\varphi) \operatorname{sign} g.$

 $K_1 = a - K_{1u}^{\bullet} \int_{\bullet} (g - a\varphi) \operatorname{sign} \varphi dt - K_{1e}^{\bullet} (g - a\varphi) \operatorname{sign} \varphi.$ $T, B, K_{gu}, K_{ge}, K_{1u}^{\bullet}, K_{1u}^{\bullet}, K_{1u}^{\bullet}, a \quad \text{are constants.} \quad \text{``a''} \quad \text{bein'}$ are constants, "a" being a specified static where

Cord 1/2

relation between g and φ . The effect of the integrals in the formulas of self-adjusting coefficients in the feedback loop K, and controlling signal K, upon the operation of the system is considered. It is shown that to maintain a specified relation between the input signal and the output coordinate under steady-state conditions with zero error, the algorithm of K, should contain the integral. That makes the system stable at any value of the self-regulation coefficient. Transient processes can be improved by introducing the terms $K^{\bullet}_{1:\ell}(g-a\varphi)\operatorname{sign}\varphi$ and K_{ℓ} . $(g-a\varphi)\operatorname{sign} g$ into the algorithms of K, and K, respectively. No introduction of the integral into K, is recommended. In the case of a system operating with g(t) = 0, the integrals should not be introduced into the algorithms of K, and K, Orig. art. has: 9 figures and 35 formulas.

ASSOCIATION: none

SUBMITTED: 12Sep63

DATE ACQ: 26May64

ENCL: 00

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IE.

NO REF SOV: 003

OTHER: 001

Card 2/2

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CCESSION	NR: AP4041464			: .
	Dutkovs	kiy, V. Yu. (Moscow)		
TITLE: Inv	stigation of the dynami	cs of a model-adaptive		AF ,
	talamakhan	ika, v. 25, no. 6, 1964,	887-895	
TOPIC TAG	S: automatic control, a	utomatic control system	ii, adaptor and	6
c== A CT	These two problems	of nonadaptive control and another unit with a nonling (2). The self-regulations which also impairs a	n coefficient varies	ris- in
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Ala which Ci	on plus and minus valu model-adaptive control	the system motion in the	he first problem is	
tic which ca time taking ducing the	on plus and minus valu model-adaptive control.	the system motion in the	he first problem is	

$$K_s = 1 + K_{gu} (g - \varphi) \operatorname{sign} g dt + K_{gu} (g - \varphi) \operatorname{sign} g_i$$

$$K_{g} = 1 + K_{gq} \int (g - \varphi) \operatorname{sign} g \, dt + K_{gq} (g - \varphi) \operatorname{sign} g,$$

$$K_{1} = 1 - K_{1q} \int (g - \varphi) \operatorname{sign} x \, dt - K_{1q} (g - \varphi) \operatorname{sign} \varphi.$$

The introduction of error components into K, and K, tends to increase the system stability and to improve the quality of the transient response. In the second problem, the system is described by:

$$T \varphi + b(t) \varphi = \delta,$$

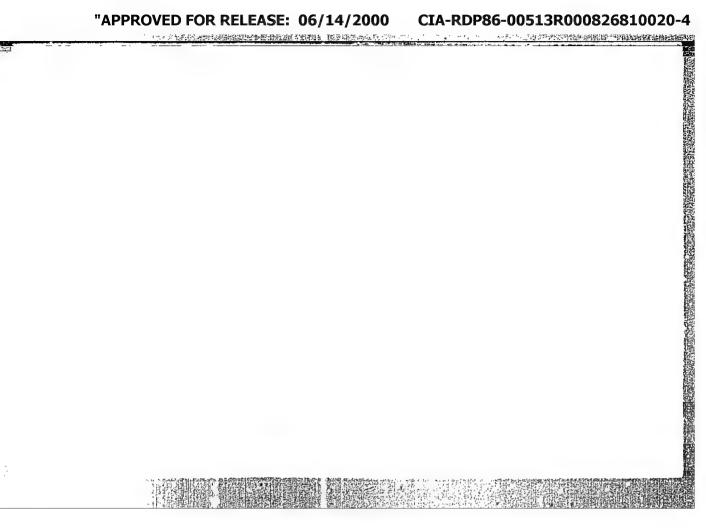
$$\delta = K_0 \xi - K_1 \varphi,$$

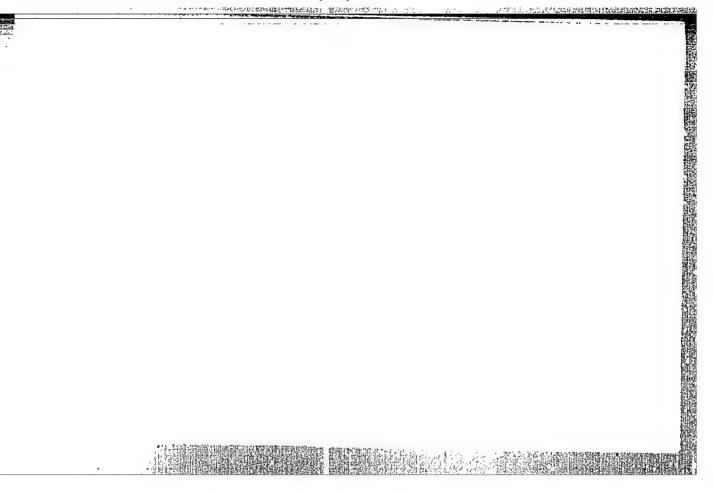
$$K_{d} = K_{ds} + K_{ge} \int (g - \varphi) \operatorname{sign} g \, dt + K_{ge} (g - \varphi) \operatorname{sign} g,$$

$$K_{1} = K_{10} \rightarrow K_{10} \int (g - \varphi) \operatorname{sign} \varphi \, dt + K_{11} (g - \varphi) \operatorname{sign} \varphi.$$

In this case, too, the model-adaptive feature brings about better stability and transient response. Orig. art. has: 11 figures and 20 formulas.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810020-4





Choice of the parameters of adaptive system with a mind

Choice of the parameters of adaptive systems with a model. Avtom. i telem. 26 no.2:223-234 F *65. (MIRA 1814)

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L 1390-66 EWP(v)/EWP(k)/EWP(h)/EWP(1)/EWT(d)

ACCESSION NR: AP5021856

UR/0280/65/000/004/0134/0147

AUTHOR: Krutova, I. N. (Moscow); Rutkovskiy, V. Yu. (Moscow)

47

TITLE: The reduction in parameter-variation sensitivity of an adaptable system with a model

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1965, 134-147

TOPIC TAGS: adaptive control, automatic control system, control system design,

ABSTRACT: The authors described in an earlier paper an adaptable system with a model-standard containing several adjustment parameters. They found that one can augment the degree of stability of such a system against wide variations of the parameters by retuning in the feed-back loops the coefficients with the object's coordinates and its derivative as a function of the differences between the a multiplicative factor which complicates the circuit. The present paper investigates a system containing a model-standard in which the tuning is carried out using a single amplification coefficient Ko of the regulator (the sensitivity problem). Card 1/2

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ACCESSION NR: AP5021856

The determination of the stability of the equilibrium state is followed by an analysis of the motion of second order systems. Results show that an appropriate choice of the K_O variation law can make the system either stable or self-oscillatory while the coefficients of the equation of the original system vary within tory while the coefficients of the equation of the original system vary within wide limits (including negative values). Orig. art. has: 57 formulas and 9 figures,

ASSOCIATION: None

SUBMITTED: 15Aug 64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 003

OTHER: 000

Card 2/2

AUTHOR: Rutkovskiy, V. Yu. (Candidate of technical sciences); Krutova, I. N. (Candidate of technical sciences)

ORG: none

TITLE: Construction principles and certain theoretical problems for one class of adaptive systems with a reference model

SOURCE: Vsesoyuznaya konferentsiya po teorii i praktike samonastraivayushchikhsya sistem. lat, 1963. Samonastraivayushchiyesya sistemy (Adaptive control systems); trudy konferentsii. Hoscow, Izd-vo Nauka, 1965, 46-63

TOPIC TAGS: self adaptive control, nonlinear automatic control, nonlinear control system, control theory

ABSTRACT: The authors describe the analysis and design of a non-search adaptive control system utilizing a reference model. In such a system the transient processes of the controlled object and the model are continuously compared in a differential circuit and the appropriate coefficients in the regulator are adjusted to maintain a certain value of the difference ϕ_{M} - ϕ , where ϕ_{M} is the variable parameter of the model and ϕ is the corresponding controlled parameter of the object. It is assumed that all changes in the reference (model) parameters, as well as independent parameter varia-

Card 1/2

1. 43946-60 ACC NR: AT6017608

tions in the controlled object (noise) are functions of time. Under these conditions it is possible to adjust the coefficients k_{d} such that the system remains functional and noiseproof over a large range of parameter variations. Another advantage of the described system over the conventional search-type control system is the higher response speed possible within the stable region of operation. The selection of the model's transient processes with respect to the constraints of the real object solves the problem of optimization of the whole system. This and the choice of the appropriate coefficients, to be adjusted in the regulator, leads to the optimum design of a control system in which the performance of the controlled object will follow closely and rapidly that of the model over a wide range of disturbances and parameter variations, not possible with the conventional systems. Orig. art. has: 14 figures, 33 formulas.

SUB CODE:

SUBH DATE: 22Nov65/

ORIG REF: 007/

OTH REF: 003

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KRUMVA, I.N. (Poskva); RUThOVSKIY, V.Yu. (Moskva)

recrease of sensitivity to the change of parameters in an adaptive control system with an analog computer. Izv. AN SSSR. Tekh. kib. no.4:134-147 Jl-Ag *65. (MIRA 18:11)

s/2531/63/000/146/0032/0035

ACCESSION NR: AT4011513

AUTHOR: Krutova, K. A. TITLE: Electrical characteristics of fogs in the region of Sverdlovsk

SOURCE: Leningrad, Glavn. geofiz. observatoriya. Trudy*, no. 146, 1963.

Atmosfernoye elektrichestvo, 32-35

TOPIC TAGS: meteorology, fog, fog electric property, atmospheric electricity,

ABSTRACT: The observatory at Vyksokaya Dubrava is located in a typical wooded region on the eastern slope of the Central Urals. Instruments were set up in a clearing, surrounded by a wooded area approximately 15 meters in height. Fogs are most frequent in the second half of the summer and the beginning of autumn; by type, they break down as follows: 40% - continuous; 32% - transparent; 28% ground fog. Most complete information is available on the behavior of the atmospheric electrical potential gradient V', values for which were recorded on a Benndorf electrograph. For this parameter, an il-year period of readings was analyzed. Although the mean values of the potential gradient with fog Vix noticeably exceed the mean value V' for the entire period of the observations (V'* m 224 volts/meter; V' = 165 volts/meter), individual cases were noted when negative 1/13 Card

values for V'* were observed. In the Leningrad region, fogs with negative V'* readings (if only for a single hour) constitute approximately 20% of the total number of fogs in that area. The causes for the occurrence of negative potential gradient values in the case of fog are not yet clear. Negative V' values are arely encountered even with dry fog. During haze (mist) no negative V' readings differ very greatly among themselves, in order to obtain a general picture of the entire aggregate of observed V'* values, a calculation was made of the recurrence of fogs P (V) as a function of V'\(\frac{V'}{V'}\), where V'* is the mean value of V' for each individual fog, and V'\(\frac{V'}{V'}\), where V'* is the mean value of V' for each corresponding month and year (see Fig. 1 of the Enclosure). Most frequently encountered are fogs for which the function \(\frac{V'}{V'}\) is a pproximately equal to unity. There is a considerable reduction in the dispersion of the distribution curve years of the electrical conductivity of the air\(\frac{V}{V''}\) and simultaneously the curve becomes more symmetrical. Recordings for two of an impanitov-system instrument (impanitov, i. M., Sachek, S. 1., in'kov, B. K., Semenov, K. A. Pribor diya izmereniya elektricheskoy provodimosti vozdukha u centration by means of an Ebert device. The mean values for the polar conductivity of the air (in 10-b e.f.u.) during fogs (and also during haze and dry fog) are

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given in Table 1. The ratio of the mean concentration of light loss in fog n* (54 cases) to the mean concentration of all measurements n_a was found to have the following value for different polarities:

$$\left(-\frac{n\pi}{N_a}\right)_+ = 0.62, \left(\frac{n\pi}{N_a}\right)_- = 0.72.$$

Most frequently encountered are fogs for which the mean value of air conductivity is approximately half that of the normal value (no fog). There is a less noticeable change in conductivity in the case of haze and dry fog. L. V. Konduktorova and R. L. Lavrova took part in processing the data collected at the Sverdiovskaya GMO (Vy#sokaya Dubrava). Original article has: 2 tables and 3 figures.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical

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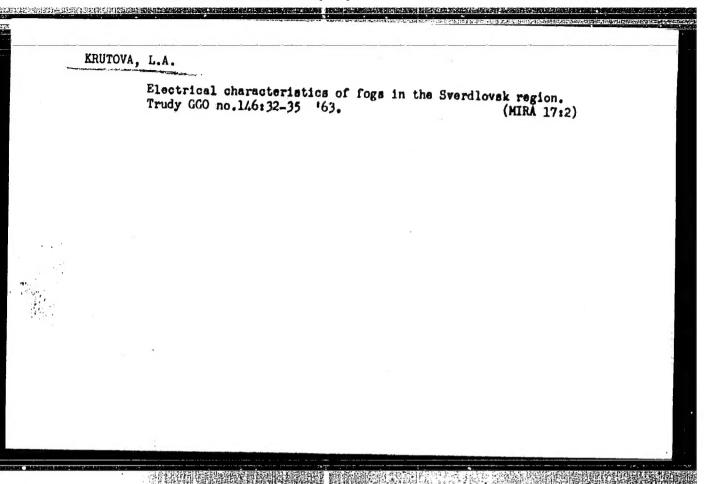
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